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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C 371

ATTORNEY'S DOCKET NUMBER 54315US

U.S. APPLICATION NO (If known, 600-37-95 1.7)

	Unassigned 17202720	•					
PCT	NATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED /US2004/021853 9 July 2004 10 July 2003						
TITLE	OF INVENTION IMPROVED ELECTROPHYSIOLOGICAL ASSAYS USING OCCYTES THAT EXPRESS						
HUMAN	N ENAC AND THE USE OF PHENAMIL TO IMPROVE THE EFFECT OF ENAC DYES						
	CANT(S) FOR DO/EO/US Servant (US), Hong Chang (US), Cyril Redcrow (US), Sumita Ray (US) Imran Clar	k (US)					
Applica	ant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:						
1. X	This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.						
2 🗆	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.						
3. X	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.						
4.	The US has been elected (Article 31).						
5. X	A copy of the International Application as filed (35 U.S.C. 371(c)(2))						
	a. X is attached hereto (required only if not communicated by the International Bureau).						
	b. has been communicated by the International Bureau.						
	c. is not required, as the application was filed in the United States Receiving Office (RO/US).						
6. X	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).						
	a. X is attached hereto.						
	b. has been previously submitted under 35 U.S.C. 154(d)(4).						
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))						
	a. are attached hereto (required only if not communicated by the International Bureau).						
	b. have been communicated by the International Bureau.						
	c. have not been made; however, the time limit for making such amendments has NOT expired.						
	d. have not been made and will not be made.						
8. 🔲	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9. 🔲	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).						
10.	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).	,					
Item	ns 11 to 20 below concern document(s) or information included:						
11.	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.	•					
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.						
13. 🔲	A preliminary amendment.						
14.	An Application Data Sheet under 37 CFR 1.76.						
15.	A substitute specification.						
16.	A power of attorney and/or change of address letter.						
17. 🔼	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.						
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).						
19. 🔲	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).						

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

IAP15 Rec'd PCT/PTO 09 JAN 2006

PTO-1390 (Rev. 07-2005)
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		n, see 37 CER 1.5)	INTERNATIONAL A	PPLICATION NO.	ATTORNEY'S DO	OCKET NUMBER
Unassigned 1563758 PCT/US2004/021853			54315US			
	er items or informat	tion:				
The fo	llowing fees have	haan auhanistad			T CALCUL ATIONS	DTO 1105 01111
vv	-			6200	\$ 200 00	PTO USE ONLY
				\$300	300.00	
If the written op	mination fee (37 C nion prepared by I VUS indicates all c ons	\$ 100.00				
If the written op IPEA/U Search fee (37 International Se previous	arch fee (37 CFR 1 nion of the ISA/US S indicates all clair CFR 1.445(a)(2)) h ional Searching At arch Report prepa ly communicated t	\$ 100.00				
TOTAL OF 21, 22 and 23 = XX Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)						
117 ₋₁₀₀ =	17 _{/50 =}			× \$250	s 250€00	l e
Surcharge of \$1 after the date of	30.00 for furnishing commencement or	g any of the search f the national stage	n fee, examination fee, or the e (37 CFR 1.492(h)).	oath or declaration	\$ 130.00	
CLAIMS	NUME	BER FILED	NUMBER EXTRA	RATE	\$	
Total claims	110) - 20 =	90	× \$ 50	\$ 4,500.00	
Independent cla	ms 6	5 -3=	3	× \$200	\$ 600.00	
MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360				+ \$360	\$ 0.00	
TOTAL OF ABOVE CALCULATIONS =					\$ 5,980.00	
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.					\$ 2,990.00	
SUBTOTAL =					\$	1
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$	
TOTAL NATIONAL FEE =					\$ 2.990.00	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					\$	
·		\$ 2,990.00				
					Amount to be refunded:	\$
					Amount to be charged	\$

	·	10/563758					
		IAP15 Rec'd PCT/PTQ 0.9 JAN 2006					
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a. XX b	A duplicate copy of this sheet is enclosed.	to cover the above fees.					
d	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No						
be included on this form. Provide credit card information and authorization on PTO-2038. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
SEND A	ALL CORRESPONDENCE TO:						
D	Duane Morris LLP 1667 K Street, N.W.	SIGNATURE Robin L. Teskin					
S	Suite 700 Washington,DC 20006	NAME 35,030 REGISTRATION NUMBER					